Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start		Rating **	М	Issue No.		6	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory						End	
Item	Flood Preparedness & Training				0		0
пеш					0		0
DWR ID	ID DWR_RD0001_01_s _ 2013_6						
		Comn	nent Cod	le			
		Inspecto	or Comm	ent			
The LMA has not attended a flood fight training class in the past few years. They do have an emergency plan.							

No Photos

Rating ** Issue No. Α 8 LM Start Issue Type + LM End Ma Location * N/A Earthen Levee GPS Latitude/Longitude Category Start End **Emergency Supplies &** Equipment DWR ID DWR_RD0001_01_s _ 2013_8

Comment Code

Inspector Comment

The LMA has emergency supplies on-site.

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

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Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Operations & Maintenance Manuals				0		0
item					٥		0
DWR ID	DWR_RD0	001_01_s _ 201	3_9				
		Comn	nent Cod	de			
	Inspector Comment						
The LMA has a copy of the O&M Manual available at the office.							

No Photos

LM Start	0.00	Rating **	М	Issue No.	Issue No. 1			
LM End	0.00	Issue Type +	Ma	Location *		WS		
Category				GPS Latitude/Longitude				
Calegory		Start		End				
DWR Erosion Survey			37.8223	06°	37.822306	0		
Item		-121.3753	04°	-121.375304	0			
DWR ID	DWR_RD0001_01_s _ 2017_1							
Comment Code								

Inspector Comment

07/25/2016: No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/20/2013: No significant change at this site.

08/07/2012: The erosion is at the confluence of Old River and one of its

tributary. [2016 Site ID:RD0001U01RM31.4]

Photo 1 of 3: SP_2017_RD0001_23_1_20170407_00001.jpg

Upstream view of the erosion.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start	0.00	Rating **	М	Issue No.	1 (cont)		
LM End	0.00	Issue Type +	Ma	Location *	WS		
Category			GPS La	atitud	le/Longitude		
Calegory		Start		End			
DWR Erosion Survey			37.8223	06°	37.822306	0	
пеш		-121.3753	04°	-121.375304	0		
DWR ID	DWR_RD0	001_01_s _ 201	7_1				
		Comn	nent Cod	le			
Inspector Comment							
07/05/0046	2. No oigni	ficant change	oboonio	٨			

07/25/2016: No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed.

0.00

LM End

08/20/2013: No significant change at this site. 08/07/2012: The erosion is at the confluence of Old River and one of its

Issue Type +

 tributary. [2016 Site ID:RD0001U01RM31.4]

 LM Start
 0.00
 Rating **
 M
 Issue No.
 1 (cont)

Ма

Location *

WS



Close view of the erosion.

Photo 3 of 3: SP_2017_RD0001_23_1_20170407_00003.jpg



Front view of the site. Note the large tree on site.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start	0.01	Rating **	Α	Issue No.		17
LM End	1.02	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory			Start		End	
Vegetation		37.8224	35°	37.812796°		
пеш	item			-121.3757	'22 °	-121.383933 °
DWR ID	DWR_RD0001_01_s _ 2017_17					
		Comn	nent Cod	de		
V1 : Contro easements	•	grass and wee	eds on th	e levee slo	pes a	and
		Inspecto	or Comm	nent		
Acceptable	e vegetatio	n control.				

Photo 1 of 1 : SP_2017_RD0001_23_17_20170417_00016.jpg
DUVENSON7

View of the acceptable vegetation control on the levee slope.

LM Start	0.17	Rating **	N	Issue No.		12
LM End	0.17	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS Latitude/Longitud		
Calegory			Start		End	
Item	Trim / Thi	n Trees		37.8213	76°	37.821376°
item				-121.3780	44 °	-121.378044°
DWR ID	DWR_RD0	001_01_s _ 201	4_12			

Comment Code

T5: Tree stumps.

Inspector Comment

Remove stump when it becomes rotted to prevent possible seepage path along the roots.

Photo 1 of 1	: SP_2017_RD0	0001_23_12_20	170407_00010.	.jpg
			nisymyonus.	
			087 B#/2016	

View of the tree stump on the waterside levee slope.

LM Start	0.21	Rating **	М	Issue No.	18			
LM End	0.21	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Erosion /	Bank Caving		37.82080)6°	37.820806 °		
пеш		· ·		-121.37826	° 06	-121.378260 °		
DWR ID	DWR_RD0	001_01_s _ 201	7_18					
	Comment Code							

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Photo 1 of 1:	SP_2017	_RD0001	_23_18_	20170417	_00017.	jpç
			19	*		
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View of the erosion on the levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start	0.24	Rating **	С	Issue No.	11		
LM End	0.24	Issue Type +	Ма	Location *	CR		
Category Earthen Levee			GPS Lat	itud	e/Longitude		
Category				Start		End	
Item	Encroach	ments		37.82036	2°	37.820362 °	
item				-121.37835	9°	-121.378359°	
DWR ID	DWR_RD0	001_01_s _ 201	4_11				
Comment Code							

MA: Material

Inspector Comment

Stockpiled riprap on levee crown. Keep the stockpile so that a vehicle could maneuver around the pile to facilitate visibility and access of the levee.

No Photos

LM Start	0.44	Rating **	U	Issue No.	14		
LM End	0.44	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Lat	itud	e/Longitude		
Calegory				Start		End	
Item	Animal Co	ontrol		37.81889	B°	37.818898	۰
пеш		-121.38033	2°	-121.380332	٥		
DWR ID	DWR_RD0	001_01_s _ 201	6_14				

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Active rodent den a size of a coyote or fox.

Photo 1 of 1: SP_2017_RD0001_23_14_20170407_00011.jpg



View of the large rodent hole on the landside levee slope.

Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start	0.45	Rating **	U	Issue No.		10	
LM End	0.45	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	Category					End	
Item	Animal Co	ontrol		37.8187	53 °	37.818753 °	
пеш				-121.38024	49 °	-121.380249 °	
DWR ID DWR_RD0001_01_s _ 2016_10							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Backfill and compact levee slope with acceptable levee fill.



View of the large rodent hole on the landside levee slope.

LM Start	0.51	Rating **	М	Issue No.		5		
LM End	0.51	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Slope Sta	bility		37.8180	03°	37.818003 °		
iteiii			-121.3798	45 °	-121.379845 °			
DWR ID DWR_RD0001_01_f _ 2015_5								

Comment Code

S1: Repair slope instability.

Inspector Comment

About a 1 ft. vertical cut is observed at the landside levee toe. Repair the landside levee toe per O&M standards.

Photo 1 of 1 : SP_2017_RD0001_23_5_20170407_00006.jpg



View of the vertical cut at the landside levee toe.

LM Start	0.52	Rating **	М	Issue No.		7
LM End	0.52	Issue Type +	Ма	Location *	LS	
Category Earthen Levee				GPS Lat	tud	le/Longitude
Calegory	TY .			Start		End
Item	Erosion /	Bank Caving		37.81782	5 °	37.817825 °
пеш			-121.379811		1°	-121.379811 °
DWR ID	DWR_RD0	001_01_s _ 201	6_7			
		Comp	ont Coo	lo.		

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment



View of the erosion on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start	0.67	Rating **	U	Issue No.	15		
LM End	0.67	Issue Type +	Ма	Location *	LS		
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Control			37.817047°		37.817047°	
item				-121.382342 °		-121.382342 °	
DWR ID DWR_RD0001_01_f _ 2016_15							
Comment Code							
A1 : Exterminate rodents and backfill and compact or grout burrows.							
Inspector Comment							
Burrow entrence is about 18 inches by 10 inches.							



View of the large rodent burrow in the landside levee slope.

LM Start	0.76	Rating **	U	Issue No.		4	
LM End	0.76	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Animal Control			37.8158	81 °	37.815881 °		
пеш				-121.3827	04°	-121.382704°	
DWR ID	VR ID DWR_RD0001_01_f _ 2015_4						

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Large burrow in the landside levee slope. Possible fox den. Cobwebs are visible in the hole. Fall 2016.

Photo 1 of 1 : SP_2017_RD0001_23_4_20170407_00005.jpg



View of a large rodent hole on the landside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.14	04/12/2017 04/12/2017	Maksim Khashchuk

LM Start	1.08	Rating **	М	Issue No.	3		
LM End	1.08	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Slope Stability			37.812023°		37.812023°	
				-121.3839	61 °	-121.383961 °	
DWR ID	DWR_RD0001_01_s _ 2016_3						
Comment Code							
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.							
Inspector Comment							
Repair slope damaged by vehicle by placing and compacting acceptable levee material.							



View of the landside slope damaged by farm equipment.